

**Appendix 1: SUMMARY DATA FOR WISCONSIN HOSPITALS,
2000**

APPENDIX 1

COMPARISONS BY HOSPITAL TYPE

	<u>GMS</u>	<u>Psych</u>	<u>AODA</u>	<u>Rehab</u>	<u>State</u>
<i>Summary Data</i>					
No. of Hospitals	125	12	1	2	2
No. of Discharges	616,814	15,409	139	793	2,019
Patient Days	2,656,134	142,220	2,212	13,632	116,131
Average Stay (days)	4.3	9.2	15.9	17.2	57.5
Ave. Charge per Stay	\$10,373	\$5,972	\$9,264	\$21,487	\$30,320
<i>Length of Stay (percent of patients)*</i>					
0-7 days	87.6 %	72.8 %	12.9 %	41.1 %	30.8 %
8-14 days	8.8	14.7	13.7	24.2	12.7
15-21 days	2.0	5.0	66.9	9.6	9.9
22-28 days	0.8	2.4	6.5	7.1	4.0
29-100 days	0.8	4.2	0.0	17.0	26.1
over 100 days	0.0	0.9	0.0	1.0	16.6
	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
<i>Expected Primary Payment Sources (percent of patients)*</i>					
Medicare	38.1 %	17.9 %	0.0 %	52.8 %	16.0 %
Medical Assistance	10.5	11.9	18.7	12.2	24.7
Other Government	1.5	8.4	0.0	1.4	0.1
Private Insurance	46.6	41.0	80.6	33.4	30.9
Self-Pay	3.1	19.8	0.7	0.1	28.2
Unknown	0.0	0.9	0.0	0.0	0.0
	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %

* May not total to 100% due to rounding.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

**GROUP COMPARISONS
GENERAL MEDICAL-SURGICAL HOSPITALS**

	<u>Number of Discharges</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>
<i>Analysis Areas*</i>			
1	109,624	4.3	\$9,810
2A	88,365	4.1	9,154
2B	159,765	5.2	15,553
3	50,580	3.9	7,514
4	61,976	3.9	7,732
5A	43,961	3.6	6,690
5B	32,418	3.7	8,806
6	60,591	4.1	8,931
7	9,534	3.4	5,220

Inpatient Volume Groups**

1	7,705	5.0	\$8,380
2	22,022	3.1	5,355
3	36,399	3.2	5,762
4	73,631	3.6	6,799
5	156,469	4.0	8,714
6	320,588	4.8	12,922

* See Appendix 4 for a map of the analysis areas.

** Comparisons were not calculated for volume group 7 (specialty hospitals).
See Appendix 5 for a listing of inpatient volume groups by hospital.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Appendix 2: 1999 DATA FOR COMPARATIVE PURPOSES

APPENDIX 2

The following tables contain 1999 comparison data from the *1999 Health Care Data Annual Report*.

Table 1. Comparative summary of utilization and charges for hospitalizations in Wisconsin, 1998 and 1999

	1999	1998	% Diff
Number of Hospitalizations	621,204	611,281	1.6
Total Patient Days	2,904,135	2,878,771	0.9
Average Stay (days)	4.7	4.7	-0.7
Hospitalizations per 1,000 Population	117.3	116.3	0.9
Patient Days per 1,000 Population	548.4	547.8	0.1
Total Charges	\$5,889,519,788	\$5,455,784,268	8.0
Average Charge per Hospitalization	\$9,486	\$8,930	6.2

Note: Except for the state-operated mental health institutes, hospitalizations with lengths of stay greater than 100 days were not included when computing the charge data above. These hospitalizations were included to compute the number of hospitalizations, patient days, average length of stay, and population-based rates. All hospitalizations of more than 999 days were excluded entirely from the data. During 1999 there were 32 such hospitalizations.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 2. Summary data for Wisconsin hospitals, by type, 1999

Type	Number of Hospitals	Number of Hospitalizations	Patient Days	Average Stay (days)	Average Charge per Day	Average Charge per Stay
GMS	125	602,936	2,622,193	4.3	\$2,208	\$ 9,486
PSYCH	12	15,495	147,075	9.5	781	6,052
AODA	1	128	2,158	16.9	551	9,286
REHAB	2	786	12,764	16.2	1,340	20,729
STATE	2	1,859	119,945	64.5	513	33,117
TOTAL	142	621,204	2,904,135	4.7	\$2,072	\$ 9,486

Note: Except for the state-operated mental health institutes, hospitalizations with lengths of stay greater than 100 days were not included when computing the charge data above. These hospitalizations were included to compute the number of hospitalizations, patient days, and average length of stay.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 3. Percentage change in utilization and charges in Wisconsin hospitals, by type, 1998 to 1999

Type	Number of Hospitalizations	Patient Days	Average Charge Per Stay
GMS	1.6%	1.0%	6.3%
PSYCH	0.9	-2.8	2.3
AODA	7.6	7.9	13.6
REHAB	4.4	0.2	15.8
STATE	8.6	3.6	-4.2

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 4. Deliveries in Wisconsin hospitals, 1999

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
370	C-Section with Complications	2,866	4.8	\$9,154	\$7,150
371	C-Section without Complications	8,109	3.8	6,590	5,941
372	Vaginal Delivery with Complicating Diagnoses	6,456	2.6	4,342	3,514
373	Normal Delivery	45,924	2.1	3,149	2,790
374	Vaginal Delivery with Sterilization &/or D&C	1,945	2.2	5,790	5,287
375	Vaginal Delivery with Operating Room Procedure	43	3.1	6,563	3,554
Total Deliveries		65,343			

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 5. Neonatal hospitalizations in Wisconsin, 1999

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
385	Neonates, Died or Transferred	1,317	4.6	\$9,896	\$1,618
386	Extreme Immaturity or Respiratory Distress	1,023	35.9	62,993	42,719
387	Prematurity with Major Problems	1,195	13.8	19,933	13,096
388	Prematurity without Major Problems	2,309	4.4	4,138	1,623
389	Full Term Neonate with Major Problems	3,689	4.0	5,745	2,329
390	Neonate with Other Significant Problems	8,794	2.4	1,671	1,217
391	Normal Newborn	<u>50,055</u>	2.0	1,072	991
	Total Neonatal Hospitalizations	68,382			

Note: Includes newborns in the hospital of birth, newborns transferred to other hospitals, and low birthweight infants readmitted when less than 28 days old after their initial hospital stay.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 6. Cardiac hospitalizations in Wisconsin, 1999

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
103	Heart Transplant	76	31.3	\$165,295	\$132,340
104	Cardiac Valve Procedures w/ Catheterization	1,351	10.9	68,525	57,899
105	Cardiac Valve Procedures w/o Catheterization	1,217	8.1	52,335	42,895
106	Bypass with PTCA†	210	9.2	63,760	57,938
107	Bypass with Catheterization	3,690	8.7	44,097	38,597
108	Other Cardiothoracic Procedures	523	10.4	62,631	41,581
109	Bypass without Catheterization	2,370	6.3	32,761	27,945
115	Permanent Pacemaker w/ Heart Attack	267	6.5	30,059	26,960
116	Pacemaker or PTCA† w/ Stent w/o Heart Attack	10,487	2.9	21,178	19,257
117	Repair of Pacemaker Device	51	3.4	11,108	7,424
118	Replacement of Pacemaker	89	2.8	13,441	12,425
127	Heart Failure and Shock	14,752	4.7	7,739	6,034
140	Angina Pectoris	2,654	1.9	4,358	3,714
143	Chest Pain	9,207	1.6	4,333	3,896
	All Other Cardiac Hospitalizations	<u>48,201</u>			
	Total Cardiac Hospitalizations	95,145			

†PTCA Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 7. Orthopedic hospitalizations in Wisconsin, 1999

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
209	Major Joint and Limb Reattachment	14,455	4.6	\$17,729	\$16,509
210	Hip and Femur Procs w/ Complications	3,228	6.3	15,946	13,141
211	Hip and Femur Procs w/o Complications	1,186	4.5	11,862	10,734
212	Hip and Femur Procedures - Children	461	3.3	10,921	9,791
243	Medical Back Problems	4,615	3.6	5,055	4,032
497	Spinal Fusion w/CC	1,273	5.6	27,664	22,308
498	Spinal Fusion w/o/CC	3,004	2.8	16,946	14,328
499	Back and Neck Procedures w/CC	1,103	4.2	12,158	9,370
500	Back and Neck Procedures w/o/CC	3,788	2.1	7,657	6,613
	All Other Orthopedic Hospitalizations	<u>22,318</u>			
	Total Orthopedic Hospitalizations	55,431			

Note: Data exclude hospitalizations at rehabilitation hospitals.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 8. Psychiatric hospitalizations in Wisconsin GMS, psychiatric, and AODA hospitals, 1999

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
424	Mental Illness with Surgical Operation	156	11.3	\$13,347	\$10,024
425	Adjustment Problems	1,340	4.2	4,934	3,401
426	Depression	4,153	5.1	3,642	2,466
427	Neuroses except Depression	2,695	4.4	2,934	1,678
428	Personality Disorders	734	10.7	6,597	4,065
429	Mental Retardation/Organic Problems	2,023	9.5	8,665	6,081
430	Psychoses	18,851	9.3	7,043	4,689
431	Childhood Mental Disorders	1,438	14.0	7,797	5,038
432	Other Mental Problems	<u>191</u>	9.4	5,406	3,143
	Total Psychiatric Hospitalizations	31,581			

Note: Figures exclude hospitalizations at the state-operated mental health institutes.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 9. AODA hospitalizations in Wisconsin GMS, psychiatric, and AODA hospitals, 1999

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
433	AODA, Left Against Medical Advice	910	2.6	\$2,446	\$1,668
434	AODA, Detox with Complications	2,830	4.2	5,236	3,476
435	AODA, Detox without Complications	8,797	2.8	2,416	1,740
436	AODA, Rehabilitation Therapy	1,257	12.9	5,157	4,460
437	AODA, Comb. Rehab/Detox Therapy	<u>2,077</u>	6.8	5,798	5,120
Total AODA Hospitalizations		15,871			

Note: Figures exclude hospitalizations at the state-operated mental health institutes.

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 10. Most common hospitalizations at Wisconsin GMS, psychiatric, and AODA facilities, 1999

<u>DRG</u>	<u>Description</u>	<u>Number of Hospitalizations</u>	<u>Average Stay (days)</u>	<u>Average Charge</u>	<u>Median Charge</u>
391	Normal Newborn	50,055	2.0	\$1,072	\$991
373	Normal Delivery	45,924	2.1	3,149	2,790
430	Psychoses	18,851	9.3	7,043	4,689
127	Heart Failure and Shock	14,752	4.7	7,739	6,034
209	Major Joint and Limb Reattachment	14,455	4.6	17,729	16,509
089	Adult Simple Pneumonia and Pleurisy with CC	13,768	5.1	8,020	6,378
116	Pacemaker or PTCA† with Stent	10,487	2.9	21,178	19,257
462	Rehabilitation	9,447	13.6	16,261	11,884
143	Chest Pain	9,207	1.6	4,333	3,896
088	Chronic Obstructive Pulmonary Disease	8,995	4.5	7,015	5,652

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 11. Most expensive hospitalizations at Wisconsin GMS, psychiatric, and AODA facilities, 1999

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Median Charge
103	Heart Transplant	76	31.3	\$165,295	\$132,340
504	Extensive Third Degree Burn with Skin Graft	19	34.4	147,972	137,382
483	Tracheostomy	1,264	39.7	140,156	119,786
481	Bone Marrow Transplant	243	28.8	121,201	91,059
480	Liver Transplant	117	24.0	109,842	83,238
495	Lung Transplant	39	17.4	101,871	92,758
506	Full Thickness Burn with Graft or Inhalation Injury	81	23.0	77,981	36,978
104	Cardiac Valve Procedures w/Cardiac Cath.	1,351	10.9	68,525	57,899
484	Craniotomy for Multiple Significant Trauma	61	18.1	67,597	49,990
106	Coronary Bypass with PTCA†	210	9.2	63,760	57,938

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 12. Hospitalizations with the highest total charge-generating DRGs at Wisconsin GMS, psychiatric, and AODA facilities, 1999

DRG	Description	Number of Hospitalizations	Average Stay (days)	Average Charge	Total Charges
209	Major Joint and Limb Reattachment	14,455	4.6	\$17,729	\$256,248,690
116	Pacemaker or PTCA† with Stent	10,487	2.9	21,178	222,093,102
483	Tracheostomy	1,264	39.7	140,156	168,888,089
107	Coronary Bypass with Cardiac Cath.	3,690	8.7	44,097	162,718,149
462	Rehabilitation	9,447	13.6	16,261	153,564,273
373	Normal Delivery	45,924	2.1	3,149	144,593,530
148	Major Bowel Procedures w/CC	5,147	11.2	27,119	139,528,061
430	Psychoses	18,851	9.3	7,043	132,351,255
127	Heart Failure and Shock	14,752	4.7	7,739	114,158,784
089	Adult Simple Pneumonia and Pleurisy w/CC	13,768	5.1	8,020	110,414,740

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Inpatient Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 13. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Statewide, 1999

Statewide

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	3,240	60.4	\$15,845,798
Accidental	2,325	43.3	9,481,963
Self-inflicted	705	13.1	4,135,738
Assault	191	3.6	2,109,199
Undetermined	19	0.4	118,898
Drown/Submersion	56	1.0	519,582
Falls	27,171	506.6	281,122,592
Fire/Flames	332	6.2	11,664,369
Firearms Total	500	9.3	10,951,006
Accidental	158	2.9	1,954,398
Self-inflicted	50	0.9	1,942,764
Assault	250	4.7	6,071,180
Undetermined	42	0.8	982,664
Hot Objects/Scalds	470	8.8	6,935,217
Machinery	1,176	21.9	11,051,964
Motor Vehicle Traffic	6,286	117.2	121,206,796
Other Pedal Cycle	751	14.0	4,959,943
Other Motor Vehicle Nontraffic	1,146	21.4	13,505,631
Other Transport	365	6.8	4,412,290
Natural/Environmental	1,094	20.4	7,436,500
Overexertion	6,678	124.5	36,012,504
Poisoning Total	5,543	103.3	34,196,900
Accidental	1,745	32.5	13,417,965
Self-inflicted	3,497	65.2	18,710,850
Assault	2	0.0	14,688
Undetermined	299	5.6	2,053,396
Striking/Struck by Total	4,582	85.4	30,859,814
Accidental	3,746	69.8	22,809,790
Assault	836	15.6	8,050,024
Suffocation	435	8.1	9,287,561
Other	19,217	358.3	155,094,155
Total Self-inflicted	4,790	89.3	31,342,709
Total Assaults	1,834	34.2	23,010,060
Total Injuries	79,042	1,473.7	\$755,062,621

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 14. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 1, 1999**Analysis Area 1—Southern**

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	504	52.1	\$2,403,414
Accidental	382	39.5	1,601,792
Self-inflicted	98	10.1	683,947
Assault	21	2.2	103,383
Undetermined	3	0.3	14,293
Drown/Submersion	16	1.7	319,085
Falls	4,785	494.3	43,823,929
Fire/Flames	92	9.5	3,384,619
Firearms Total	49	5.1	912,353
Accidental	28	2.9	272,653
Self-inflicted	9	0.9	314,427
Assault	10	1.0	182,251
Undetermined	2	0.2	143,022
Hot Objects/Scalds	91	9.4	1,299,553
Machinery	227	23.4	1,791,133
Motor Vehicle Traffic	1,199	123.9	22,543,155
Other Pedal Cycle	143	14.8	960,118
Other Motor Vehicle Nontraffic	179	18.5	2,042,070
Other Transport	92	9.5	919,608
Natural/Environmental	267	27.6	2,076,561
Overexertion	1,069	110.4	4,692,163
Poisoning Total	978	101.0	5,543,284
Accidental	298	30.8	2,128,682
Self-inflicted	627	64.8	3,031,073
Undetermined	53	5.5	383,530
Striking/Struck by Total	796	82.2	4,275,186
Accidental	688	71.1	3,670,212
Assault	108	11.2	604,974
Suffocation	97	10.0	2,736,691
Other	3,186	329.1	25,112,254
Total Self-inflicted	813	84.0	5,580,373
Total Assaults	220	22.7	1,514,786
Total Injuries	13,770	1,422.5	\$124,835,175

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 15. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 2A, 1999

Analysis Area 2A—Southeastern

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	486	50.3	\$1,850,355
Accidental	325	33.6	1,044,792
Self-inflicted	146	15.1	625,345
Assault	9	0.9	157,930
Undetermined	6	0.6	22,287
Drown/Submersion	1	0.1	6,788
Falls	3,865	399.8	40,517,397
Fire/Flames	13	1.3	66,114
Firearms Total	33	3.4	259,319
Accidental	13	1.3	40,270
Self-inflicted	2	0.2	41,251
Assault	12	1.2	144,339
Undetermined	6	0.6	33,459
Hot Objects/Scalds	44	4.6	306,462
Machinery	99	10.2	609,557
Motor Vehicle Traffic	619	64.0	6,570,329
Other Pedal Cycle	86	8.9	648,129
Other Motor Vehicle Nontraffic	104	10.8	1,291,501
Other Transport	42	4.3	345,768
Natural/Environmental	114	11.8	889,520
Overexertion	656	67.9	3,625,292
Poisoning Total	802	83.0	4,003,282
Accidental	167	17.3	1,286,186
Self-inflicted	550	56.9	2,409,195
Undetermined	85	8.8	307,901
Striking/Struck by Total	532	55.0	2,432,293
Accidental	477	49.3	2,159,078
Assault	55	5.7	273,215
Suffocation	44	4.6	682,742
Other	2,299	237.8	14,274,348
Total Self-inflicted	731	75.6	3,267,751
Total Assaults	128	13.2	1,239,035
Total Injuries	9,839	1,017.8	\$78,379,194

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 16. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 2B, 1999**Analysis Area 2B—Milwaukee County**

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	823	86.0	\$5,507,787
Accidental	605	63.2	2,616,739
Self-inflicted	77	8.0	1,037,694
Assault	137	14.3	1,829,370
Undetermined	4	0.4	23,984
Drown/Submersion	24	2.5	324,941
Falls	5,804	606.7	76,270,862
Fire/Flames	128	13.4	6,049,783
Firearms Total	386	40.3	7,634,919
Accidental	117	12.2	1,731,105
Self-inflicted	17	1.8	469,071
Assault	228	23.8	5,159,616
Undetermined	24	2.5	275,127
Hot Objects/Scalds	170	17.8	3,633,714
Machinery	278	29.1	3,539,151
Motor Vehicle Traffic	1,534	160.3	39,406,618
Other Pedal Cycle	165	17.2	1,547,326
Other Motor Vehicle Nontraffic	91	9.5	1,589,256
Other Transport	45	4.7	1,039,399
Natural/Environmental	241	25.2	2,250,020
Overexertion	1,281	133.9	9,416,363
Poisoning Total	1,291	134.9	11,170,712
Accidental	677	70.8	6,867,302
Self-inflicted	547	57.2	3,697,619
Assault	2	0.2	16,341
Undetermined	65	6.8	589,450
Striking/Struck by Total	1,163	121.6	9,754,127
Accidental	805	84.1	6,034,921
Assault	358	37.4	3,719,206
Suffocation	127	13.3	2,835,180
Other	5,003	522.9	51,993,764
Total Self-inflicted	705	73.7	6,573,512
Total Assaults	1,064	111.2	16,598,733
Total Injuries	18,554	1,939.4	\$233,963,923

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 17. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 3, 1999

Analysis Area 3—Lake Winnebago

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	340	61.2	\$1,591,751
Accidental	227	40.9	793,651
Self-inflicted	105	18.9	715,833
Assault	7	1.3	79,275
Undetermined	1	0.2	2,991
Drown/Submersion	1	0.2	9,842
Falls	2,588	465.9	19,865,261
Fire/Flames	19	3.4	86,722
Firearms Total	17	3.1	139,185
Accidental	11	2.0	53,831
Self-inflicted	3	0.5	40,027
Assault	2	0.4	36,970
Undetermined	1	0.2	8,358
Hot Objects/Scalds	20	3.6	80,382
Machinery	106	19.1	552,663
Motor Vehicle Traffic	531	95.6	7,873,012
Other Pedal Cycle	72	13.0	496,374
Other Motor Vehicle Nontraffic	86	15.5	973,756
Other Transport	37	6.7	218,165
Natural/Environmental	61	11.0	652,819
Overexertion	669	120.4	3,082,529
Poisoning Total	457	82.3	1,987,869
Accidental	114	20.5	573,536
Self-inflicted	339	61.0	1,404,727
Undetermined	4	0.7	9,606
Striking/Struck by Total	377	67.9	1,948,101
Accidental	323	58.1	1,433,015
Assault	54	9.7	515,086
Suffocation	32	5.8	325,222
Other	2,236	402.5	11,975,156
Total Self-inflicted	503	90.6	3,113,905
Total Assaults	66	11.9	493,379
Total Injuries	7,649	1,377.0	\$51,858,811

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 18. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 4, 1999**Analysis Area 4—Northeastern**

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	323	55.0	\$1,272,445
Accidental	237	40.4	761,486
Self-inflicted	67	11.4	372,726
Assault	18	3.1	136,011
Undetermined	1	0.2	2,223
Drown/Submersion	4	0.7	34,504
Falls	3,043	518.2	22,352,541
Fire/Flames	15	2.6	81,389
Firearms Total	18	3.1	284,507
Accidental	12	2.0	64,019
Self-inflicted	5	0.9	192,849
Assault	1	0.2	27,639
Hot Objects/Scalds	37	6.3	179,874
Machinery	174	29.6	970,959
Motor Vehicle Traffic	660	112.4	7,634,856
Other Pedal Cycle	94	16.0	556,472
Other Motor Vehicle Nontraffic	114	19.4	947,360
Other Transport	38	6.5	196,227
Natural/Environmental	109	18.6	540,126
Overexertion	839	142.9	3,294,650
Poisoning Total	466	79.4	2,179,651
Accidental	159	27.1	857,984
Self-inflicted	289	49.2	1,232,521
Assault	1	0.2	1,483
Undetermined	17	2.9	87,663
Striking/Struck by Total	512	87.2	2,139,796
Accidental	440	74.9	1,836,228
Assault	72	12.3	303,568
Suffocation	46	7.8	319,150
Other	1,596	271.8	8,105,166
Total Self-inflicted	547	93.2	2,728,902
Total Assaults	117	19.9	592,538
Total Injuries	8,088	1,377.4	\$51,089,675

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 19. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 5A, 1999

Analysis Area 5A—West Central

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	314	75.1	\$811,560
Accidental	259	61.9	600,162
Self-inflicted	46	11.0	143,759
Assault	7	1.7	64,559
Undetermined	2	0.5	3,080
Drown/Submersion	3	0.7	7,230
Falls	2,158	516.2	15,171,436
Fire/Flames	18	4.3	77,300
Firearms Total	21	5.0	152,672
Accidental	17	4.1	81,206
Self-inflicted	3	0.7	43,273
Assault	1	0.2	28,192
Hot Objects/Scalds	20	4.8	71,147
Machinery	110	26.3	494,231
Motor Vehicle Traffic	454	108.6	5,155,226
Other Pedal Cycle	59	14.1	221,319
Other Motor Vehicle Nontraffic	98	23.4	725,945
Other Transport	38	9.1	147,528
Natural/Environmental	123	29.4	538,691
Overexertion	563	134.7	2,258,209
Poisoning Total	294	70.3	1,109,882
Accidental	78	18.7	334,772
Self-inflicted	202	48.3	738,500
Undetermined	14	3.3	36,609
Striking/Struck by Total	382	91.4	1,329,344
Accidental	326	78.0	1,114,495
Assault	56	13.4	214,849
Suffocation	27	6.5	144,578
Other	1,481	354.2	6,548,112
Total Self-inflicted	276	66.0	999,273
Total Assaults	84	20.1	366,044
Total Injuries	6,163	1,474.1	\$34,964,408

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 20. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 5B, 1999

Analysis Area 5B—Southwestern

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	195	78.4	\$888,720
Accidental	98	39.4	430,852
Self-inflicted	93	37.4	421,684
Assault	4	1.6	36,185
Drown/Submersion	3	1.2	8,157
Falls	1,308	526.2	11,267,726
Fire/Flames	14	5.6	104,511
Firearms Total	17	6.8	284,459
Accidental	10	4.0	93,118
Self-inflicted	4	1.6	119,337
Assault	1	0.4	6,242
Undetermined	2	0.8	65,762
Hot Objects/Scalds	11	4.4	46,048
Machinery	65	26.1	506,139
Motor Vehicle Traffic	351	141.2	4,781,416
Other Pedal Cycle	37	14.9	226,290
Other Motor Vehicle Nontraffic	55	22.1	583,084
Other Transport	26	10.5	192,064
Natural/Environmental	69	27.8	420,933
Overexertion	358	144.0	1,819,678
Poisoning Total	354	142.4	1,528,113
Accidental	53	21.3	266,554
Self-inflicted	272	109.4	1,123,071
Assault	1	0.4	2,108
Undetermined	28	11.3	136,380
Striking/Struck by Total	216	86.9	1,325,911
Accidental	171	68.8	994,763
Assault	45	18.1	331,147
Suffocation	24	9.7	271,244
Other	651	261.9	4,996,950
Total Self-inflicted	382	153.7	1,768,931
Total Assaults	72	29.0	554,386
Total Injuries	3,754	1,510.2	\$29,251,442

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 21. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 6, 1999

Analysis Area 6—North Central

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	222	49.0	\$713,880
Accidental	166	36.7	512,519
Self-inflicted	51	11.3	157,033
Assault	3	0.7	32,133
Undetermined	2	0.4	12,196
Drown/Submersion	4	0.9	56,973
Falls	2,469	545.3	19,944,751
Fire/Flames	33	7.3	124,535
Firearms Total	30	6.6	721,775
Accidental	20	4.4	196,887
Self-inflicted	6	1.3	487,671
Assault	1	0.2	7,350
Undetermined	3	0.7	29,867
Hot Objects/Scalds	46	10.2	447,823
Machinery	118	26.1	804,840
Motor Vehicle Traffic	615	135.8	9,823,017
Other Pedal Cycle	51	11.3	423,570
Other Motor Vehicle Nontraffic	176	38.9	1,922,032
Other Transport	44	9.7	319,438
Natural/Environmental	102	22.5	580,636
Overexertion	842	186.0	3,520,898
Poisoning Total	374	82.6	1,688,008
Accidental	110	24.3	513,540
Self-inflicted	254	56.1	1,143,342
Assault	1	0.2	1,543
Undetermined	9	2.0	29,583
Striking/Struck by Total	368	81.3	1,979,125
Accidental	315	69.6	1,711,185
Assault	53	11.7	267,940
Suffocation	40	8.8	632,192
Other	1,473	325.3	7,440,329
Total Self-inflicted	322	71.1	1,851,106
Total Assaults	86	19.0	599,163
Total Injuries	7,007	1,547.7	\$51,143,822

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 22. Wisconsin injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), Analysis Area 7, 1999**Analysis Area 7—Western Lake Superior**

Injury Category	Number Of Cases	Rate per 100,000 Population	Total Charges
Cut/Pierce Total	63	44.5	\$138,573
Accidental	51	36.0	110,711
Self-inflicted	12	8.5	27,863
Falls	492	347.5	2,718,667
Fire/Flames	3	2.1	12,346
Firearms Total	2	1.4	20,970
Accidental	2	1.4	20,970
Hot Objects/Scalds	6	4.2	24,257
Machinery	4	2.8	18,166
Motor Vehicle Traffic	70	49.4	288,933
Other Pedal Cycle	4	2.8	18,385
Other Motor Vehicle Nontraffic	39	27.5	218,730
Other Transport	11	7.8	54,433
Natural/Environmental	27	19.1	96,778
Overexertion	84	59.3	365,006
Poisoning Total	100	70.6	373,897
Accidental	35	24.7	146,660
Self-inflicted	55	38.8	199,158
Undetermined	10	7.1	28,079
Striking/Struck by Total	68	48.0	201,521
Accidental	47	33.2	117,073
Assault	21	14.8	84,449
Suffocation	11	7.8	40,555
Other	241	170.2	779,513
Total Self-inflicted	72	50.8	245,305
Total Assaults	30	21.2	108,416
Total Injuries	1,225	865.1	\$5,370,732

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 23. Self-inflicted injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), 1999**Statewide**

<u>Injury Category</u>	<u>Male</u>	<u>Female</u>	<u>Total Cases</u>
Poisoning by solid or liquid substances	1,057	2,034	3,091
Poisoning by gases in domestic use	2	1	3
Poisoning by other gases (e.g., car exhaust)	25	16	41
Hanging, strangling, and suffocation	26	11	37
Submersion (drowning)	0	1	1
Firearms and explosives	45	5	50
Cutting/piercing	326	369	695
Jumping from a high place	11	5	16
Other self-inflicted injuries	<u>200</u>	<u>217</u>	<u>417</u>
Total self-inflicted injuries	1,692	2,659	4,351

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 24. Assaultive injuries (to persons treated as hospital inpatients or in hospital-based ambulatory surgery settings and FASCs), 1999**Statewide**

<u>Injury Category</u>	<u>Male</u>	<u>Female</u>	<u>Total Cases</u>
Unarmed fight or brawl	524	129	653
Rape	0	11	11
Poisoning	3	2	5
Hanging and strangling	1	1	2
Firearms and explosives	228	20	248
Cutting/piercing	165	41	206
Child battering and other maltreatment	44	84	128
Striking by blunt or thrown object	127	24	151
Bite of human being	61	38	99
Other assaultive injuries	<u>282</u>	<u>82</u>	<u>364</u>
Total assaultive injuries	1,435	432	1,867

Source: Inpatient and Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 25. Summary of selected ambulatory surgical procedure data, Wisconsin GMS hospitals and FASCs, 1999

ICD-9-CM		Number of Cases	Avg. Charge	Percentile Distribution of Charges		
Code	Procedure			25th	50th	75th
03.92	Injection of other Agent into Spinal Canal	22,006	\$560	\$337	\$488	\$732
04.43	Carpal Tunnel Release	10,139	1,769	1,192	1,574	2,156
13.41	Phacoemulsification and Aspiration of Cataract	29,932	3,175	2,447	3,050	3,838
13.59	Other Extracapsular Extraction of Lens	11,305	2,578	1,961	2,450	2,805
13.64	Discission of Secondary Membrane After Cataract	6,065	680	515	612	850
20.01	Myringotomy with Insertion of Tube	11,899	1,443	926	1,305	1,687
28.3	Tonsillectomy with Adenoidectomy	5,870	2,362	1,768	2,253	2,787
37.22	Left Heart Cardiac Catheterization	10,760	5,101	3,853	4,542	6,140
42.92	Dilation of Esophagus	6,094	1,124	750	1,044	1,336
45.13	Other Endoscopy of Small Intestine	10,813	951	609	807	1,074
45.16	EGD† w/Closed Biopsy	30,197	1,219	812	1,069	1,413
45.23	Colonoscopy	30,869	1,014	712	960	1,200
45.24	Flexible Sigmoidoscopy	17,957	499	238	356	634
45.25	Endoscopic Biopsy of Large Intestine	14,802	1,300	821	1,209	1,575
45.42	Endoscopic Polypectomy of Large Intestine	24,352	1,374	969	1,265	1,650
51.23	Laparoscopic Cholecystectomy	8,812	5,617	4,311	5,500	6,749
57.32	Other Cystoscopy	11,780	1,220	617	901	1,566
80.6	Excision of Semilunar Cartilage of Knee	13,172	3,478	2,485	3,215	4,154
85.21	Local Excision of Lesion of Breast	10,011	2,321	1,490	2,008	2,821
86.3	Local Excision/Destr. of Lesion or Tissue of Skin	19,065	815	151	363	1,125

Note: Charges may reflect charges for other ambulatory procedures performed during the same surgical episode. Refer to page 333 for an explanation of percentiles.

† Esophagogastroduodenoscopy

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

APPENDIX 2

Table 26. Age and sex distribution of persons undergoing selected ambulatory procedures, Wisconsin GMS hospitals and FASCs, 1999

ICD-9-CM		Age Groupings				Sex	
Code	Procedure	0-14	15-44	45-64	65+	Male	Female
03.92	Injection of other Agent into Spinal Canal	0.0%	29.0%	33.4%	37.5%	46.0%	54.0%
04.43	Carpal Tunnel Release	0.1	36.5	38.7	24.7	38.6	61.4
13.41	Phacoemulsification and Aspiration of Cataract	0.1	1.6	13.4	85.0	36.1	63.9
13.59	Other Extracapsular Extraction of Lens	0.1	1.8	15.3	82.8	37.4	62.6
13.64	Discission of Secondary Memb. After Cataract	0.3	2.2	12.9	84.6	31.0	69.0
20.01	Myringotomy with Insertion of Tube	93.8	2.7	1.5	2.0	58.0	42.0
28.3	Tonsillectomy with Adenoidectomy	92.4	7.5	0.1	0.0	46.7	53.3
37.22	Left Heart Cardiac Catheterization	0.0	8.4	48.0	43.6	59.7	40.3
42.92	Dilation of Esophagus	0.8	18.5	33.3	47.4	50.8	49.2
45.13	Other Endoscopy of Small Intestine	1.0	30.3	33.7	34.9	42.0	58.0
45.16	EGD† w/Closed Biopsy	2.3	27.9	35.9	33.9	45.0	55.0
45.23	Colonoscopy	0.1	15.6	45.1	39.1	40.9	59.1
45.24	Flexible Sigmoidoscopy	0.1	13.6	50.9	35.5	47.9	52.1
45.25	Endoscopic Biopsy of Large Intestine	1.9	28.3	37.1	32.8	41.5	58.5
45.42	Endoscopic Polypectomy of Large Intestine	0.1	7.5	44.6	47.8	54.2	45.8
51.23	Laparoscopic Cholecystectomy	0.2	47.9	35.8	16.1	21.0	79.0
57.32	Other Cystoscopy	1.6	17.3	28.1	53.0	58.5	41.5
80.6	Excision of Semilunar Cartilage of Knee	0.5	39.1	45.5	14.8	59.8	40.2
85.21	Local Excision of Lesion of Breast	0.2	33.1	42.1	24.6	2.7	97.3
86.3	Local Excision/Destr. of Lesion/Tissue of Skin	7.5	33.2	29.4	29.9	47.0	53.0

Note: Rows may not total 100% due to rounding.

† Esophagogastroduodenoscopy

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 27. Expected primary pay source distribution of persons undergoing selected ambulatory procedures, Wisconsin GMS hospitals and FASCs, 1999

ICD-9-CM Code	Procedure	T18	T19	Other Gov't	Commercial Insurance	Self-Pay	Unknown
03.92	Injection of other Agent into Spinal Canal	38.1%	2.2%	0.3%	57.0%	0.9%	1.4%
04.43	Carpal Tunnel Release	25.2	2.7	0.2	70.2	1.0	0.7
13.41	Phacoemulsification and Aspiration of Cataract	82.0	0.9	0.3	16.4	0.4	0.0
13.59	Other Extracapsular Extraction of Lens	77.3	0.6	0.4	20.8	0.5	0.4
13.64	Dissection of Secondary Membrane After Cataract	79.5	1.0	0.1	18.8	0.3	0.3
20.01	Myringotomy with Insertion of Tube	2.1	13.9	0.3	81.2	0.9	1.7
28.3	Tonsillectomy with Adenoidectomy	0.1	10.4	0.3	86.6	1.2	1.4
37.22	Left Heart Cardiac Catheterization	43.4	2.1	0.6	52.5	1.3	0.0
42.92	Dilation of Esophagus	48.7	1.8	0.4	47.9	0.7	0.6
45.13	Other Endoscopy of Small Intestine	37.0	3.4	0.6	56.8	1.5	0.6
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	35.1	3.5	0.6	58.6	1.2	1.0
45.23	Colonoscopy	38.7	1.3	0.5	58.1	0.8	0.6
45.24	Flexible Sigmoidoscopy	34.4	1.1	0.4	63.0	0.9	0.1
45.25	Endoscopic Biopsy of Large Intestine	32.4	2.0	0.5	63.1	1.0	1.0
45.42	Endoscopic Polypectomy of Large Intestine	46.6	1.1	0.3	51.0	0.5	0.4
51.23	Laparoscopic Cholecystectomy	16.7	4.2	0.7	75.3	2.5	0.7
57.32	Other Cystoscopy	52.4	2.6	0.6	43.4	0.7	0.3
80.6	Excision of Semilunar Cartilage of Knee	14.6	1.4	0.4	81.1	1.1	1.4
85.21	Local Excision of Lesion of Breast	25.1	2.5	0.8	68.4	1.8	1.5
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	29.2	2.3	0.4	64.6	2.3	1.1

Note: Rows may not total 100% due to rounding.

T18 refers to Medicare. T19 refers to Medical Assistance.

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 28. Most frequently performed ambulatory surgical procedures, Wisconsin GMS hospitals and FASCs, 1999

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
45.23	Colonoscopy	30,869	\$1,014	\$31,308,109
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	30,197	1,219	36,807,907
13.41	Phacoemulsification and Aspiration of Cataract	29,932	3,175	95,038,417
45.42	Endoscopic Polypectomy of Large Intestine	24,352	1,374	33,451,048
03.92	Injection of other Agent into Spinal Canal	22,006	560	12,316,373
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	19,065	815	15,536,779
45.24	Flexible Sigmoidoscopy	17,957	499	8,964,201
45.25	Endoscopic Biopsy of Large Intestine	14,802	1,300	19,245,161
80.6	Excision of Semilunar Cartilage of Knee	13,172	3,478	45,814,537
20.01	Myringotomy with Insertion of Tube	11,899	1,443	17,164,995
57.32	Other Cystoscopy	11,780	1,220	14,375,408
03.91	Injection of Spinal Canal for Analgesia	11,409	602	6,865,542
13.59	Other Extracapsular Extraction of Lens	11,305	2,578	29,140,010
45.13	Other Endoscopy of Small Intestine	10,813	951	10,285,580
37.22	Left Heart Cardiac Catheterization	10,760	5,101	54,890,078
04.43	Carpal Tunnel Release	10,139	1,769	17,934,338
85.21	Local Excision of Lesion of Breast	10,011	2,321	23,236,888
51.23	Laparoscopic Cholecystectomy	8,812	5,617	49,500,532
42.92	Dilation of Esophagus	6,094	1,124	6,850,095
13.64	Discission of Secondary Membrane After Cataract	6,065	680	4,127,015
28.3	Tonsillectomy with Adenoidectomy	5,870	2,362	13,867,020
45.43	Endoscopic Destruction of Lesion/Tissue of Large Intestine	4,448	1,104	4,911,424
04.81	Injection of Anesthetic into Peripheral Nerve for Analgesia	4,200	791	3,320,509
66.29	Bilat. Endoscopic Destruction/Occlusion of Fallopian Tubes	3,918	3,197	12,526,937
85.11	Closed (Percutaneous)(Needle) Breast Biopsy	3,801	1,329	5,049,803
81.92	Injection of Therapeutic Substance into Joint or Ligament	3,465	477	1,652,710
69.09	Other Dilation and Curettage (D&C)	3,290	2,699	8,879,866
48.36	Endoscopic Polypectomy of Rectum	3,199	1,254	4,010,488
28.2	Tonsillectomy without Adenoidectomy	3,159	2,488	7,860,746
77.51	Bunionectomy with Osteotomy of the First Metatarsal	2,989	3,453	10,319,990
81.83	Other Repair of Shoulder	2,934	4,979	14,607,356
53.04	Repair of Indirect Inguinal Hernia w/Graft or Prosthesis	2,923	3,533	10,327,534
75.35	Other Diagnostic Procedures on Fetus and Amnion	2,853	334	953,746
80.86	Other Local Excision or Destruction of Knee Lesion	2,809	3,299	9,268,231
53.00	Unilateral Repair of Inguinal Hernia	2,806	2,715	7,617,796
86.24	Chemosurgery of Skin	2,804	364	1,020,090
82.21	Excision of Lesion of Tendon Sheath of Hand	2,590	1,909	4,945,437
53.03	Repair of Direct Inguinal Hernia with Graft or Prosthesis	2,557	3,527	9,019,671
57.49	Oth. Transurethral Excision/Destr. Lesion/Tissue Bladder	2,505	2,840	7,113,557
53.49	Other Umbilical Herniorrhaphy	2,382	2,593	6,177,675

Note: Charges may reflect charges for other procedures performed during the same surgical episode.

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 29. Most expensive ambulatory surgical procedures (with at least 5 cases reported), Wisconsin GMS hospitals and FASCs, 1999

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
20.98	Implant/Replace of Cochlear Prosthetic Device, Multiple Channel	9	\$47,454	\$427,090
37.94	Implant/Repl. Auto. Cardioverter/Defibrillator, Total System (AICD)	76	36,821	2,798,372
20.96	Implant/Replace Cochlear Prosthetic Device Not Otherwise Specified	20	32,357	647,142
37.98	Replace Automatic Cardioverter/Defibrillator Pulse Generator Only	186	27,313	5,080,158
37.96	Implantation Auto. Cardioverter/Defibrillator Pulse Generator Only	22	26,867	591,077
36.05	Multiple Vessel PTCA† w/wo/Mention of Thrombolytic Agent	186	21,279	3,957,931
04.92	Implantation or Replacement of Peripheral Neurostimulator	92	19,253	1,771,301
02.93	Implantation of Intracranial Neurostimulator	14	18,637	260,920
36.06	Insertion of Coronary Artery Stent(s)	103	16,910	1,741,756
36.01	Single Vessel PTCA† w/wo/Mention of Thrombolytic Agent	710	15,957	11,329,233
37.83	Initial Insertion of Pacemaker with Dual-Chamber Device	118	15,600	1,840,764
37.34	Catheter Ablation of Lesion or Tissue of Heart	534	15,394	8,220,304
36.02	1 Vessel PTCA† or Coronary Atherectomy w/Thrombolytic Agent	8	15,361	122,888
92.27	Implantation or Insertion of Radioactive Element	420	14,453	6,070,274
37.72	Initial Insertion of Transvenous Leads into Atrium and Ventricle	61	14,136	862,313
37.80	Insertion of Pacemaker, Initial or Replace, Type not Specified	5	13,703	68,513
58.93	Implantation of Artificial Urinary Sphincter	15	13,056	195,834
37.82	Initial Insertion of a Single-Chamber Device, Rate Responsive	17	12,532	213,045
37.71	Initial Insertion of Transvenous Leads into Ventricle	25	12,529	313,219
20.99	Other Operations on Middle and Inner Ear	7	12,307	86,146

Note: Charges may reflect charges for other procedures performed during the same surgical episode

†PTCA: Percutaneous Transluminal Coronary Angioplasty

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

**Table 30. Highest total charge-generating ambulatory surgical procedures, Wisconsin
GMS hospitals and FASCs, 1999**

ICD-9-CM Code	Procedure	Number of Cases	Average Charge	Total Charges
13.41	Phacoemulsification and Aspiration of Cataract	29,932	\$3,175	\$95,038,417
37.22	Left Heart Cardiac Catheterization	10,760	5,101	54,890,078
51.23	Laparoscopic Cholecystectomy	8,812	5,617	49,500,532
80.6	Excision of Semilunar Cartilage of Knee	13,172	3,478	45,814,537
45.16	Esophagogastroduodenoscopy (EGD) w/Closed Biopsy	30,197	1,219	36,807,907
45.42	Endoscopic Polypectomy of Large Intestine	24,352	1,374	33,451,048
45.23	Colonoscopy	30,869	1,014	31,308,109
13.59	Other Extracapsular Extraction of Lens	11,305	2,578	29,140,010
85.21	Local Excision of Lesion of Breast	10,011	2,321	23,236,888
45.25	Endoscopic Biopsy of Large Intestine	14,802	1,300	19,245,161
04.43	Carpal Tunnel Release	10,139	1,769	17,934,338
20.01	Myringotomy with Insertion of Tube	11,899	1,443	17,164,995
86.3	Local Excision/Destruction of Lesion or Tissue of Skin	19,065	815	15,536,779
81.45	Other Repair of the Cruciate Ligaments	1,993	7,576	15,098,019
39.50	Angioplasty or Artherectomy of Non-Coronary Vessel	1,926	7,815	15,051,891
81.83	Other Repair of Shoulder	2,934	4,979	14,607,356
57.32	Other Cystoscopy	11,780	1,220	14,375,408
28.3	Tonsillectomy with Adenoidectomy	5,870	2,362	13,867,020
37.23	Combined Right/Left Heart Cardiac Catheterization	2,233	5,985	13,365,611
66.29	Bilat. Endoscopic Destruction/Occlusion of Fallopian Tubes	3,918	3,197	12,526,937

Note: Charges may reflect charges for other procedures performed during the same surgical episode

Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

**Table 31. Ambulatory surgical procedures, by major category, Wisconsin
GMS hospitals and FASCs, 1999**

<u>Category of Surgical Procedure</u>	<u>Number of Cases</u>	<u>Total Charges</u>
Cardiovascular	27,525	\$161,885,401
CPT Codes Not Converted	87	282,983
Diagnostic/Therapeutic	7,407	22,520,513
Digestive	188,288	310,347,458
Ear	15,864	29,479,608
Endocrine	1,387	3,325,012
Eye	63,768	167,217,876
Female Genital	24,567	73,220,757
Hemic/Lymphatic	3,279	8,213,529
Integumentary	56,077	89,830,513
Male Genital	8,696	17,590,992
Musculoskeletal	76,794	252,270,393
Nervous	55,675	57,182,510
Nose/Mouth/Pharynx	26,264	66,243,739
Obstetrical	5,415	2,590,106
Respiratory	7,317	15,791,456
Urinary	<u>24,199</u>	<u>50,219,330</u>
Statewide Totals	592,609	\$1,328,212,175

*Source: Ambulatory Surgery Data, Bureau of Health Information, Division of Health Care Financing,
Department of Health and Family Services.*

Appendix 3: TECHNICAL NOTES

TECHNICAL NOTE: METHODOLOGY USED TO RISK-ADJUST DATA

In recent years a number of methods have been developed to measure variations in charges and lengths of stay resulting from patient risk differences. BHI uses computer software to implement a Coded Disease Staging approach (MEDSTAT Disease Staging IV). Coded Disease Staging relies upon information obtained from the uniform billing forms and so is readily applied using data already collected by BHI.

The process uses ICD-9-CM diagnosis and procedure codes, sex, age, admission source, and discharge status for each patient and makes a comparison to data developed from a nationwide sample of patients in the same DRG. Each patient is then assigned a number, called the Resource Demand Index, which defines relative resource use. Resource use refers to how much care a patient requires (i.e., length of stay, professional attention, drugs and supplies, tests, etc.). Those patients whose factors place them among the patients with average resource use in the national database are assigned a value of 100 and are considered to be of average risk.

Patients whose factors place them among the more resource-intensive patients in the national database are assigned progressively higher values representing the additional cost of treatment. For example, treatment for a patient with a value of 120 is expected to require 20 percent more resources (as reflected in charges), based on the pattern for patients in the national sample with similar risks. Less resource-intensive patients are assigned values progressively lower than 100.

The effects of severity variation may be removed from each patient's charges by using this index to adjust actual charges to the level incurred by a patient of "average" risk (i.e., one with an index of 100). This is done by dividing the patient's actual charges by the assigned index and multiplying by 100. The resulting value represents the amount that would have been charged had the patient been of average risk.

If the actual average charge for a group of patients is higher than their risk-adjusted average charge, it means that the patients in this group had a *greater* than average severity of illness.

Comparison of these values will point out variations due to factors other than differences in patient risk. Groups of patients, such as those in different hospitals, may be compared as if they were all like the average patient in their DRG.

The DRG-specific risk-adjusted charge data were developed in this manner. BHI risk-adjusted each charge value in the BHI database using the above process, making all patients look like an average patient. These values were then averaged for each hospital, analysis area, inpatient volume group, and GMS hospitals as a single group.

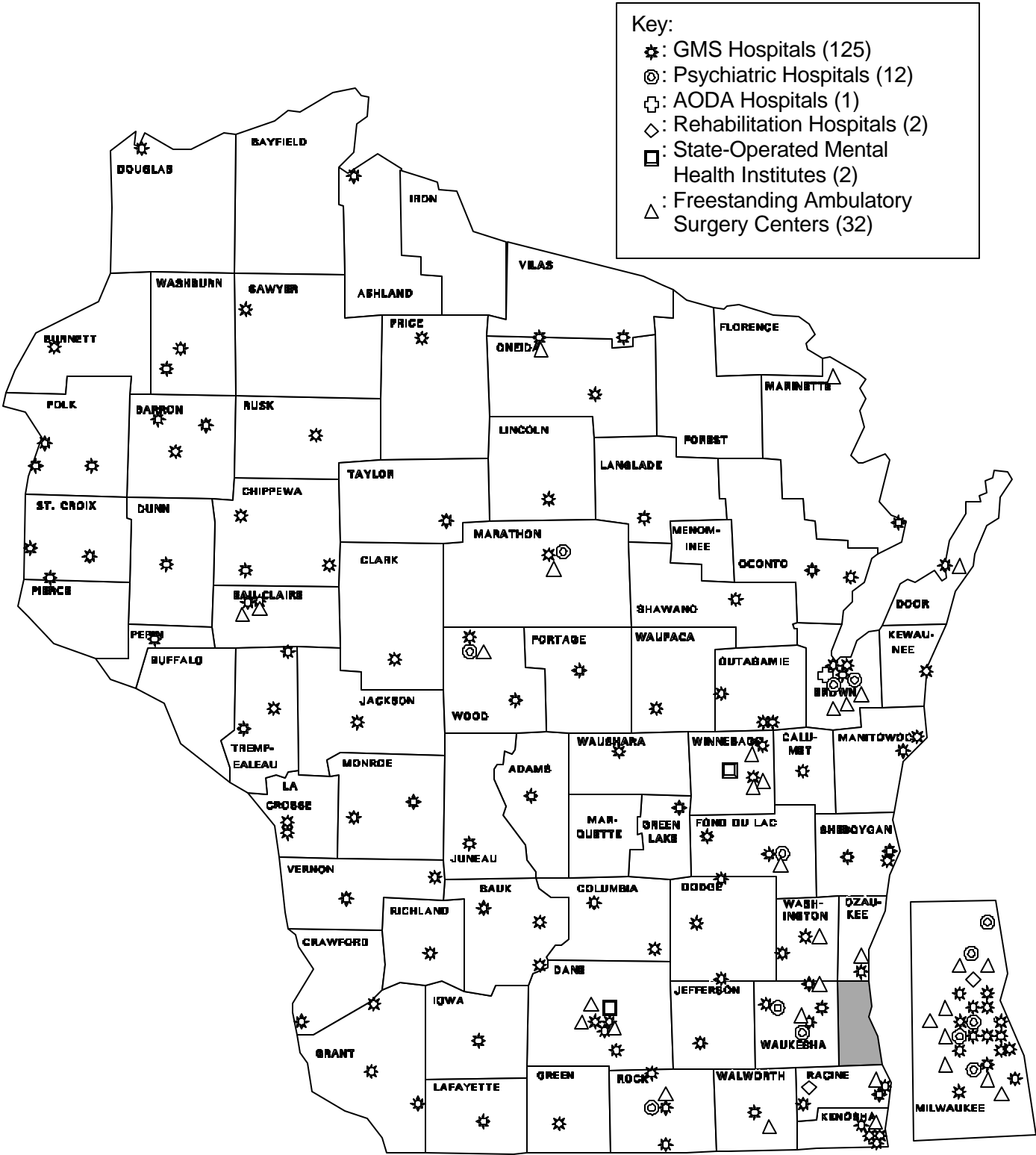
HCFA DIAGNOSTIC CATEGORIES - REHABILITATION SERVICES

Applicable ICD-9-CM* Diagnostic Codes

STROKE	BRAIN DAMAGE OR INJURY	ARTHRITIS	OTHER NEUROLOGICAL DISEASE	HIP FRACTURE	MISCELLANEOUS REHABILITATION		
342	046.2	714	045.9	719.70	038.9	556	805.4
342.0	191.3	714.0	138	719.75	170.2	569.83	805.8
342.1	192.1	714.30	250.60	733.42	170.4	571	812
342.9	225.2	714.3	310.1	808.8	174.9	593.4	812.20
431	310.2	715.09	332	820	185	593.7	812.2
432.1	310.8	715.26	332.0	820.2	188.6	594.1	814
434	323.9	715.35	334.3	820.20	200.5	598.9	818.0
434.0	331.3	715.9	334.9	820.21	202.8	599.0	820.09
434.1	331.4	715.90	335.20	820.8	202.81	682.6	821.00
434.9	331.9	715.91	337.9	821	224.2	686.9	822
435.9	348.1	715.95	340	905.3	250	707	823.02
436	352.9	715.96	341.9		250.01	707.0	823.80
437.1	768.5	715.99	345.9		250.5	709.9	823.82
437.3	484.5	716.95	355.3		255.4	710.3	825.25
438	800.24	720	355.9		263.9	718.35	827
784.3	800.4	721.0	356.1		296.99	719.45	829
** V57.89	803.1	721.1	356.9		298.1	719.46	839.03
	851.01	721.9	357		300.8	722.1	840.4
	851.04	721.90	357.0		306.4	722.73	846.9
	851.85	729.0	357.2		307.81	723.1	847
	852.2	730.20	357.7		310.9	724.4	847.1
	852.20	V43.6	357.9		318.1	724.5	847.2
	852.25		359		344.8	727.2	863
	852.45		359.9		344.9	728.2	867
	854.0		723.0		346	728.89	905.1
	854.00		724.02		346.2	733.1	805.4
	854		728.9		362.1	736.7	907
	854.03		729.1		368.46	755.30	914.3
	854.04		729.2		394.1	755.8	924.01
	854.05		747.6		401.9	756.11	924.8
	854.06		780.3		425.3	780.7	936
	854.14		781.0		427.31	781.2	939.3
	854.16		781.3		427.5	783.4	991.6
	873		781.9		428	784.4	996.39
	907.0		905.0		429.2	785	998.5
			969.7		440.9	789	V16.8
					441.2	801	V45.89
					441.4	803	V48.4
					442.81	803.00	V57.81
					448.0	805.02	V57.9
					451.2	805.07	V58.4
					496	805.2	
* International Classification of Diseases-9th Edition-Clinical Modifications							
** Refer to secondary diagnoses to identify underlying disease.							

Appendix 4: SELECTED WISCONSIN MAPS

<p>Location of Wisconsin Hospitals and Freestanding Ambulatory Surgery Centers, 2000</p>
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Wisconsin Bureau of Health Information

Hospital Inpatient Analysis Areas



Wisconsin Division of Health Care Financing
Bureau of Health Information

Wisconsin Three-Digit Zip Code Areas



Wisconsin Division of Health Care Financing
Bureau of Health Information

